

INDEX TO VOLUME 19

1989

Volume 19, Number 1

January

G.A. NOVAK and A.A. COLVILLE: Efflorescent Mineral Assemblages Associated with Cracked and Degraded Residential Concrete Foundations in Southern California	1
I. BLECHMAN: Stage Model of Stress-Strain Relationship for Concrete under Short-Term Load	7
M. MURAT and A. Al CHEIKH: Behavior of E-Glass Fiber in Basic Aqueous Medium Resulting from the Dissolution of Mineral Binders Containing Metakaolinite	16
QIJUN ZHENG and D.D.L. CHUNG: Carbon Fiber Reinforced Cement Composites Improved by Using Chemical Agents	25
J. RAGAI: Surface and Bulk Properties of Ancient Egyptian Mortars, Part V: Thermal Studies (b)	42
M.M. ALI, S.J. RAINA and V.K. SINGH: Kinetics and Diffusion Studies in CA_2 Formation	47
O.Z. CEBECI, S.I. Al-NOURY and W.H. MIRZA: Strength and Drying Shrinkage of Masonry Mortars in Various Temperature-Humidity Environments	53
M.P. LUXÁN, F. MADRUGA and J. SAAVEDRA: Rapid Evaluation of Pozzolanic Activity of Natural Products by Conductivity Measurement	63
M.P. LUXÁN, M.I. SANCHEZ de ROJAS and M. FRÍAS: Investigations on the Fly Ash-Calcium Hydroxide Reactions	69
A. BASCOUL, J.P. OLLIVIER and M. POUSSHANCHI: Stable Microcracking of Concrete Subjected to Tensile Strain Gradient	81
I. KAPRALIK and F. HANIC: Phase Relations in the Subsystem $C_4A_3S-CSH_2-CH-H_2O$ of the System $CaO-Al_2O_3-CS-H_2O$ Referred to Hydration of Sulphoaluminate Cement	89
J. PIASTA, Z. SAWICZ and W.G. PIASTA: Durability of High Alumina Cement Pastes with Mineral Additions in Water Sulfate Environment	103
P.J.M. MONTEIRO, O.E. GJORV and P.K. MEHTA: Effect of Condensed Silica Fume on the Steel-Cement Paste Transition Zone	114
M. RIAZ and E. ZAMORANI: A Study of the Effects 1, 3, 5-Trichlorobenzene Solidified in Cement	124
A.J. Al-TAYYIB, M.H. BALUCH, Al-FARABI M. SHARIF and M.M. MAHAMUD: The Effect of Thermal Cycling on the Durability of Concrete Made from Local Materials in the Arabian Gulf Countries	131
BIN CHEN and S.T. MAU: Recalibration of a Plastic-Fracturing Model for Concrete Confinement	143
NEWS ITEMS	155
LETTER TO THE EDITOR: A Model for Lead Retardation of Cement Setting. David Cocke, J.D. Ortego, H. McWhinney, K. Lee and S. Shukla	156
SOFTWARE SURVEY SECTION	1

1989

Volume 19, Number 2

March

F. de LARRARD: Ultrafine Particles for the Making of Very High Strength Concretes	161
J.S. CHINCHON, A. LOPEZ-SOLER, A. SANCHEZ REYES, M. GINJAUME, E. VAZQUEZ and A. YAGUE: Quantification of Fly Ash in Cements and Mortars by Means of Gamma Spectrometry	173
S. CHATTERJI, N. THAULOW and A.D. JENSEN: Studies of Alkali-Silica Reaction. Part 5. Verification of a Newly Proposed Reaction Mechanism	177
MINGYUAN CHEN and YI FANG: The Chemical Composition and Crystal Parameters of Calcium Chlorosulfatosilicate	184

R. CIOFFI, M. MARROCCOLI and G. MASCOLO: On Permeation Effects of Aqueous Solutions Through Non-Mature Pastes of Portland-Pozzolana Cement	189
F. IRASSAR and O. BATIC: Effects of Low Calcium Fly Ash on Sulfate Resistance of OPC Cement	194
I. Blechman: State Model of Stress-Strain Relationship for Concrete under Short-Term Load. Part 3. Descending Branch	203
W.G. PASTA, Z. SAWICZ and J. PIASTA: Sulfate Durability of Concretes under Constant Sustained Load	216
G. PARRY-JONES, A.J. AL-TAYYIB, S.U. AL-DULAIJAN and A.I. AL-MANA: ²⁹ Si MAS-NMR Hydration and Compressive Strength Study in Cement Paste	228
A.L.A. FRAAY, J.M. BIJEN and Y.M. de HAAN: The Reaction of Fly Ash in Concrete: A Critical Examination	235
B.E.I. ABDELRAZIG, J.H. SHARP and B. EL-JAZAIRI: The Microstructure and Mechanical Properties of Mortars Made from Magnesia-Phosphate Cement	247
E. ZAMORANI, I. SHEIKH and G. SERRINI: A Study of the Influence of Nickel Chloride on the Physical Characteristics and Leachability of Portland Cement	259
A. DUREKOVIC, V. CALOGOVIC and K. POPOVIC: Frost Resistance of OPC-CSF Mortars Investigated by Means of Repeated Cycle- and One Cycle-Freezing Test	267
R.J. COLLINS: Alkali Aggregate Reactivity in Dense Concretes Containing Synthetic or Porous Natural Aggregate	278
R.N. EDMONDS and A.J. MAJUMDAR: The Hydration of Secar 71 Aluminous Cement at Different Temperatures	289
I. ODLER and Th. von BORSTEL: Laser Granulometer Study of Cement Suspensions	295
P.J.M. MONTEIRO, A.I. RASHED, J. BASTACKY and T.L. HAYES: Ice in Cement Paste as Analyzed in the Low-Temperature Scanning Electron Microscope	306
NEWS ITEMS	315
BOOK REVIEWS	317
SOFTWARE SURVEY SECTION	I

1989	Volume 19, Number 3	May
M. PORTILLA: Enthalpy of Dehydration of Portland and Pozzolanic Cements	319	
K. ANDERSSON, B. ALLARD, M. BENGTTSSON and B. MAGNUSSON: Chemical Composition of Cement Pore Waters	327	
E. GRABOWSKI and J.E. GILLOTT: Effect of Replacement of Silica Flour with Silica Fume on Engineering Properties of Oilwell Cements at Normal and Elevated Temperatures and Pressures	333	
A.A. AKHTARUZZAMAN: Behaviour of Foamed Slag Concrete at High Temperatures	345	
T. SUGAMA, L.E. KUKACKA, N. CARCIELLO and D. STATHOPOULOS: Interfacial Reactions Between Oxidized Carbon Fibers and Cements	355	
F.E. LYDON and A.H. MAHAWISH: Strength and Permeability Results from a Range of Concretes	366	
H. ÖLMEZ and E. ERDEM: The Effects of Phosphogypsum on the Setting and Mechanical Properties of Portland Cement and Trass Cement	377	
E.J. REARDON, B.R. JAMES and J. ABOUCHAR: High Pressure Carbonation of Cementitious Grout	385	
N. BANTHIA and J-F. TROTTIER: Effects of Curing Temperature and Early Freezing on the Pull-Out Behavior of Steel Fibres	400	
R. MELZER and E. EBERHARD: Phase Identification During Early and Middle Hydration of Tricalciumsilicate (Ca ₃ SiO ₅)	411	
O.A. KAYYALI: Porosity and Compressive Strength of Cement Paste in Sulphate Solution	423	
A. SHAYAN: Re-Examination of AAR in an Old Concrete	434	
M. MICHAUX, P. FLETCHER and B. VIDICK: Evolution at Early Hydration Times of the Chemical Composition of Liquid Phase of Oil-Well Cement Pastes with and without Additives. Part I. Additive Free Cement Pastes	443	

D.W.S. HO, Q.Y. CUI and D.J. RITCHIE: The Influence of Humidity and Curing Time on the Quality of Concrete	457
G.S. HASANAIN, T.A. KAHALLAF and K. MAHMOOD: Water Evaporation from Freshly Placed Concrete Surfaces in Hot Weather	465
K. ROSE, B.B. HOPE and A.K.C. IP: Statistical Analysis of Strength and Durability of Concrete Made with Different Cements	476
JIANG SHI-PING and J. GRANDET: Evolution Comparée des Porosités des Mortiers de Ciment au Laitier et des Mortiers de Ciment Portland	487
NEWS ITEMS	497
SOFTWARE SURVEY SECTION	I

1989 Volume 19, Number 4 July

E. GRABOWSKI and J.E. GILLOTT: Modifications of Engineering Behaviour of Thermal Cement Blends Containing Silica Fume and Silica Flour by Replacing Flour with Silica Sand	499
F. von LAMPE and R. SEYDEL: On a New Form of β -Belite	509
I. KAPRALIK, L. STEVULA and F. HANIC: Hydration and Hydraulic Properties of the Q Phase in the System $\text{CaO-Al}_2\text{O}_3\text{-MgO-H}_2\text{O}$ Referred to High Alumina Cements	519
SHI CAIJUN and LI YINYU: Investigation on Some Factors Affecting the Characteristics of Alkali-Phosphorus Slag Cement	527
T.S. NAGARAJ, K.T. SUNDARA RAJA IYENGAR and S.G. SHASHIPRAKASH: Soil-Concrete Analogy - Principles and Potentials	534
N.B. SINGH and A.K. SINGH: Effect of Melment on the Hydration of White Portland Cement	547
J. KEATING, D.J. HANNANT and A.P. HIBBERT: Comparison of Shear Modulus and Pulse Velocity Techniques to Measure the Build-up of Structure in Fresh Cement Pastes Used in Oil Well Cementing	554
B. VIDICK, P. FLETCHER and M. MICHAUX: Evolution at Early Hydration Times of the Chemical Composition of Liquid Phase of Oil-Well Cement Pastes with and without Additives. Part II. Cement Pastes Containing Additives	567
J.L. GRANJU and J. GRANDET: Relation Between the Hydration State and the Compressive Strength of Hardened Portland Cement Pastes	579
J. TRITTHART: Chloride Binding in Cement. I. Investigations to Determine the Composition of Porewater in Hardened Cement	586
F. von LAMPE, A.-R. GRIMMER and B. WALLIS: Preparation and Characterization of the Calcium Silicate Sulfate Chloride $\text{Ca}_4(\text{SiO}_4)(\text{SO}_4)\text{Cl}_2$	595
B.L. KARIHALOO and P. NALLATHAMBI: An Improved Effective Crack Model for the Determination of Fracture Toughness of Concrete	603
E.A. HANSEN: A Holographic Real Time Study of Crack Propagation in Concrete	611
P. PLANTE, M. PIGEON and C. FOY: The Influence of Water-Reducers on the Production and Stability of the Air Void System in Concrete	621
M.K. GOPALAN and M.N. HAQUE: Mix Design for Optimal Strength Development of Fly Ash Concrete	634
D.G. IVEY and M. NEUWIRTH: A Technique for Preparing TEM Specimens from Cementitious Materials	642
L.J. PARROTT and D.C. KILLOH: Carbonation in a 36 Year Old, In-Situ Concrete	649
W. KURDOWSKI and U. MORYC: Once More About Bromide Alinite	657
DISCUSSIONS	
E.F. Irassar	662
C. Ouyang, A. Nanni and W.F. Chang	664
F.G. Buttler	665
NEWS ITEMS	667
SOFTWARE SURVEY SECTION	I

F. HANIC, I. KAPRALIK and A. GABRISOVA: Mechanism of Hydration Reactions in the System $C_4A_3S-CS-CaO-H_2O$ Referred to Hydration of Sulphoaluminate Cements	671
J. TRITTHART: Chloride Binding in Cement. II. The Influence of the Hydroxide Concentration in the Pore Solution of Hardened Cement Paste on Chloride Binding	683
A. PIERRE, J.M. LAMARCHE, R. MERCIER et A. FOISSY: Adsorption d'un Fluidifiant du Ciment sur le Carbonate de Calcium	692
E. GRABOWSKI and J.E. GILLOTT: The Effect of Initial Curing Temperature on the Performance of Oilwell Cements Made with Different Types of Silica	703
J. KEATING, D.J. HANNANT and A.P. HIBBERT: Correlation Between Cube Strength, Ultrasonic Pulse Velocity and Volume Change for Oil Well Cement Slurries	715
N. BANTHIA and S. MINDESS: Water Permeability of Cement Paste	727
F. von LAMPE: Hydraulic Properties of the Calcium Silicate Sulfate Chloride $Ca_4(SiO_4)(SO_4)Cl_2$	737
T. SUGAMA, N.J. HOCKER, L.E. KUKACKA and N. CARCIELLO: The Effects of In-Situ Sintered Titania on the Mechanical Properties of High Temperature Calcium Aluminate Cements	747
S.J. WAY and A. SHAYAN: Early Hydration of a Portland Cement in Water and Sodium Hydroxide Solutions: Composition of Solutions and Nature of Solid Phases	759
K.C. NATESAIYER and K.C. HOVER: Further Study of an In-situ Identification Method for Alkali-Silica Reaction Products in Concrete	770
R.N. EDMONDS and A.J. MAJUMDAR: The Hydration of Mixtures of Monocalcium Aluminate and Blastfurnace Slag	779
H. GRUBE and W. RECHENBERG: Durability of Concrete Structures in Acidic Water	783
A. DUDA: Hydraulic Reactions of LD Steelwork Slags	793
H. STADE: On the Reaction of C-S-H(Di, poly) with Alkali Hydroxides	802
E. NÄGELE and U. SCHNEIDER: The Zeta-Potential of Blast Furnace Slag and Fly Ash	811
K. KOBAYASHI and Y. UNO: Influence of Alkali on Carbonation of Concrete. Part 1. Preliminary Tests with Mortar Specimens	821
S. SURESH, E.K. TSCHEGG and J.R. BROCKENBROUGH: Fatigue Crack Growth in Cementitious Materials under Cyclic Compressive Loads	827
NEWS ITEMS	834
SOFTWARE SURVEY SECTION	I

J.A. CHESLEY and G. BURNET: A Two-Stage Reaction Sequence for C_3S Formation	837
A.J. MAJUMDAR, B. SINGH and R.N. EDMONDS: Hydration of Mixtures of $C_{12}A_7$ and Granulated Blast-Furnace Slag	848
T. SUGAMA, L.E. KUKACKA, N. CARCIELLO and N.J. HOCKER: Study of Interactions at Water-Soluble Polymer/ $Ca(OH)_2$ or Gibbsite Interfaces by XPS	857
H.Y. GHORAB, M.S. HILAL and E.A. KISHAR: Effect of Mixing and Curing Waters on the Behaviour of Cement Pastes and Concrete. Part I: Microstructure of Cement Pastes	868
P.W. BROWN and P. LaCROIX: The Kinetics of Ettringite Formation	879
G. FRIGIONE and R. SERSALE: The Action of Some Aggressive Solutions on Portland, Pozzolanic and Blastfurnace Slag Cement Mortars	885
M. MOUKWA: Penetration of Chloride Ions from Sea Water into Mortars under Different Exposure Conditions	894
P. HUDEC and J.A. LARBI: A Study of Alkali-Aggregate Reaction in Concrete: Measurement and Prevention. Part I: Measurement - Development of Rapid AR Test Method	905
K. FUKUDA and I. MAKI: Orientation of $\beta-Ca_2SiO_4$ Solid Solution Lamellae Formed in the Host α -Phase	913

J.C. CUNNINGHAM, B.L. DURY and T. GREGORY: Adsorption Characteristics of Sulphonated Melamine Formaldehyde Condensates by High Performance Size Exclusion Chromatography	919
P.J.M. MONTEIRO and J. LUBLINER: A Generalized Continuum Theory for Concrete	929
N. BANTHIA, M. PIGEON and L. LACHANCE: Calorimetric Study of Freezable Water in Cement Paste	939
LU PING, DAI WEIWEN, TONG YUYE and FEI LUN: The Influence of VTES on the Hydration Process of C_3S	951
J.J. BEAUDOIN, R.F. FELDMAN and V.S. RAMACHANDRAN: Stress Development at the Cement Paste-Steel Interface for Thin Cement Paste Coatings	957
G. KAKALI, V. KASSELOURI and G. PARISSAKIS: Hydration and Strength Development of Cements Produced from Raw Mixes Containing MoO_3 , Nb_2O_5 , WO_3 and ZrO_2	968
Z.P. BAZANT: Identification of Strain-Softening Constitutive Relation from Uniaxial Tests by Series Coupling Model for Localization	973
E. NÄGELE and U. SCHNEIDER: From Cement to Hardened Paste - an Elektrokinetic Study	978
P.J.M. MONTEIRO and C.P. OSTERTAG: Analysis of the Aggregate-Cement Paste Interface Using Grazing Incidence X-Ray Scattering	987
DISCUSSION	
S.D. Venecanin	989
NEWS ITEMS	991
INDEX TO VOLUME 19	993
SOFTWARE SURVEY SECTION	I

KEYWORD INDEX

- | | | |
|-------------------------------------|--------------------------------------|---|
| Accelerated Tests, 905 | Calcium Aluminate Sulfate, 89 | Chloride Ions, 894 |
| Acceleration, 821 | Ca, 259 | Chlorides, 177 |
| Acid, 783 | $CaCO_3$ Dispersion, 692 | Chromatography, 919 |
| Air Entrainment, 267 | $Ca(OH)_2$, 857 | Comparison, 554 |
| Air Voids, 621 | $Ca_4(SiO_4)(SO_4)Cl_2$, 595, 737 | Composites, 25 |
| Alkali Aggregate Reaction, 278, 434 | $Ca_{10}(SiO_4)_3(SO_4)_3Cl_2$, 184 | Composition, 184, 189, 327, 567 |
| Alkali Effect, 821 | CA, 779 | Compression, 53, 827 |
| Alkali Hydroxide, 802 | CA Cement Pastes, 747 | Concrete, 1, 131, 235, 345, 366, 457, 476, 534, 634, 649, 783 |
| Alkali Reactive Aggregate, 905 | CA_2 Formation, 47 | Concrete Quality, 457 |
| Alkali-Silica, 177 | Carbonation, 385, 649, 821 | Conductivity, 63 |
| Alkali-Silica Reaction, 770 | Carbon Fiber, 25, 355 | Confinement, 143 |
| Alkali-Slag Cements, 527 | Cements, 25, 295, 327, 355, 759, 793 | Constant Load, 216 |
| Alpha, 913 | Cement Grout, 385 | Continuum Theory, 929 |
| Analogy, 534 | Cement Paste, 306, 319, 727, 939 | Crack Growth, 827 |
| Ancient Mortars, 42 | CH, 69 | Crack Propagation, 611 |
| Aqueous Phase, 443 | C_2S , 837 | Crystal Structure, 184 |
| Atrophy, 7 | C_3S , 837 | C-S-H, 802 |
| | C_3S Hydration, 411, 951 | C-S-H Crystallinity, 411 |
| Belite, 913 | C_4A_3S , 671 | Curing Temperature, 400, 703 |
| Beta, 913 | $C_{12}A_7$ -Slag, 848 | Curing Time, 457 |
| β -Belite, 509 | Chemical Agents, 25 | |
| Blastfurnace Slag, 779 | Chloride Binding, 586, 683 | |
| Bromide Alinite, 657 | Chloride Flux, 595 | |

- Dam, 434
 Degradation, 1
 Dehydration, 319
 Descending Branch Model, 203
 DSC, 939
 Diffusion Kinetics, 47
 Dissolution, 16
 Drying, 385
 Durability, 103, 131, 216, 476, 783

 Early Age, 400
 Early Hydration, 567, 759
 Effective Crack Model, 603
 Effects, 621, 968
 Efflorescence, 1
 Egypt, 42
 Electrokinetics, 978
 Enthalpy, 319
 Ettringite Formation, 879
 Evaporation, 465
 Expansion, 278

 Fatigue, 827
 Fibre Reinforcement, 400
 Flexure, 53
 Flow Behavior, 534
 Fly Ash, 69, 173, 194, 235, 634, 811
 Foamed Slag, 345
 Fracture Toughness, 603
 Freezing, 400, 939
 Fresh Concrete, 465
 Frost Resistance, 267

 Gamma Ray Spectrometry, 173
 Gibbsite, 857
 Glass Fiber, 16
 Gypsum, 879

 Hemihydrate, 879
 High Alumina Cement, 103, 289, 519
 High Pressure, 385
 Holography, 611
 Hot Weather, 465
 Humidity, 53, 457
 Hydrates, 779
 Hydration, 968
 Hydrating Cement Paste, 978
 Hydration, 89, 289, 547
 Hydration Mechanism, 671
 Hydration State, 579
 Hydraulic Properties, 519, 737
 Hydroxyl Concentration, 586, 683

 Ice, 306
 Induction Period, 235
 In-Situ Identification, 770
 Interface, 355

 Interfacial, 957
 Interlayer, 802
 Ions, 443
 IR, 69

 Kinetics, 879, 837

 Lamellae, 913
 Laser Granulometry, 295
 LD Steel Slags, 793
 Leachability, 259
 Lime-Soda Sinter, 937
 Liquid Phase, 567
 Loading, 611
 Low Calcium, 194
 Low Temperature, 306

 Magic Angle, 228
 Mg Chloride, 885
 Mg Sulfate, 885
 Mg Phosphate Cement, 247
 Mechanical Properties, 247, 377
 Mechanism, 177
 Melment, 547
 Metakaolinite, 16
 Microcracking, 7
 Microstructure, 247
 Microstructure Effect, 868
 Minerals, 1
 Mix Design, 634
 Model, 143
 Modification, 499
 MoO₃, 968
 Mortars, 793, 894

 New Form, 509
 Nickel Chloride, 259
 Nb₂O₅, 968
 NMR, 228, 951

 Oil Well, 715
 Oil Well Cements, 333, 443, 499, 554, 567, 703
 Old Concrete, 434
 Optimization, 634
 Osmotic Pressure, 189

 Penetration, 894
 Performance, 703
 Permeability, 189, 333, 355, 727
 Phase Boundary Control, 47
 Phosphogypsum, 377
 Phosphorus, 527
 Plastic-Fracture, 143
 Polymer, 857
 Pore Solutions, 278, 327, 586, 683
 Pore Structure, 487

 Porosity, 423, 579, 929
 Pozzolanic Reaction, 63
 Pozzolans, 885
 Pulse Velocity, 554, 715

 Q-Phase, 519

 Reactions, 69, 848
 Reactivity, 63
 Recalibration, 143
 Replicas, 81
 Retention, 259

 Saturation, 443
 SEM, 81, 306
 Series Coupling Model, 973
 Setting, 377
 Shear Modulus, 554
 Shrinkage, 53
 Si, 228
 Silica Fume, 114, 267, 333
 Slag, 811, 885
 Slag Cement Mortar, 487
 NaOH, 759
 Soil, 534
 Sol-Gel, 747
 Solidified Cement, 124
 Solution, 189, 885
 Solvent, 783
 Specimen Preparation, 642
 Stable Microcracking, 81
 Statistical Analysis, 476
 Steel-Paste, 114
 Strain-Softening, 973
 Strength, 53, 228, 366, 423, 476, 527, 579, 634, 715
 Stress, 957
 Stress-Strain, 7
 Stress-Strain Diagram, 203
 Sulfate, 103
 Sulfate Resistance, 194, 216
 Sulfate Solutions, 423
 Sulphoaluminate Cements, 89, 671
 Sulfonated Melamine Formaldehyde Condensates, 919
 Superplasticizer, 692
 Synthesis, 657

 TEM, 411, 642
 Temperature, 289, 333, 345
 Tensile Strain, 81
 Thawing, 939
 Thermal Conditions, 499
 Thermal Cycling, 131
 Thermal Studies, 42
 Thin Paste Coatings, 957
 36-Year Old, 649

- Titania, 747
 Transformation, 509
 Transition Zone, 114
 Trass, 377
 Triaxial, 727
 Trichlorobenzene, 124
 Ultrafine Particles, 161
 Uniaxial Tests, 973
 Very High Strength Concretes, 161
 VTES, 951
 Volume Change, 715
 Volume Fraction, 929
 Waste, 642
 Water, 295
 Water Chemistry, 868
 Water Glass, 527
 Water Reducers, 621
 White Cement, 547
 WO₃, 968
 XRD, 69
 XPS, 355, 857
 Zeta-Potential, 811
 ZrO₂, 968

AUTHOR INDEX

- Abdelrazig, B.E.I., 247
 Abouchar, J., 385
 Akhtaruzzaman, A.A., 345
 Al Cheikh, A., 16
 Al-Dulaijan, S.U., 228
 Ali, M.M., 47
 Allard, B., 327
 Al-Mana, A.I., 228
 Al-Noury, S.I., 53
 Al-Tayyib, A.J., 131, 228
 Andersson, K., 327
 Baluch, M.H., 131
 Banthia, N., 400, 727, 939
 Bascoul, A., 81
 Bastacky, J., 306
 Batic, O., 194
 Bazant, Z.P., 973
 Beaudoin, J.J., 957
 Bengtsson, M., 327
 Bijen, J.M., 235
 Blechman, I., 7, 203
 Brockenbrough, J.R., 827
 Brown, P.W., 879
 Burnet, G., 837
 Butler, F.G., 665
 Calogovic, V., 267
 Carciello, N., 355, 747, 857
 Cebeci, O.Z., 53
 Chang, W.F., 664
 Chatterji, S., 177
 Chen, Bin, 143
 Chen, Mingyuan, 184
 Chesley, J.A., 837
 Chinchon, J.S., 173
 Chung, D.D.L., 25
 Cioffi, R., 189
 Cocke, D., 156
 Coleville, A.A., 1
 Collins, R.J., 278
 Cui, Q.Y., 457
 Cunningham, J.C., 919
 Dai Weisen, 851
 de Haan, Y.M., 235
 Duda, A., 793
 Durekovic, A., 267
 Dury, B.L., 919
 Eberhard, E., 411
 Edmonds, R.N., 289, 779, 848
 El-Jazairi, B., 247
 Erdem, E., 377
 Fei Lun, 851
 Feldman, R.F., 957
 Fletcher, P., 443, 567
 Foissy, A., 692
 Foy, C., 621
 Fraay, A.L.A., 235
 Frias, M., 69
 Frigione, G., 885
 Fukuda, K., 913
 Gabrisova, A., 671
 Ghorab, H.Y., 868
 Gillott, J.E., 333, 499, 703
 Ginjaume, M., 173
 Gjorv, O.E., 114
 Gopalan, M.K., 634
 Grabowski, E., 333, 499, 703
 Grandet, J., 487, 579
 Granju, J.L., 579
 Gregory, T., 919
 Grimmer, A.-R., 595
 Grube, H., 783
 Hanic, F., 89, 519, 671
 Hannant, D.J., 554, 715
 Hansen, E.A., 611
 Haque, M.N., 634
 Hasanain, G.S., 465
 Hayes, T.L., 306
 Hibbert, A.P., 554, 715
 Hilal, M.S., 868
 Ho, D.W.S., 457
 Hocker, N.J., 747, 857
 Hope, B.B., 476
 Hover, K.C., 770
 Hudec, P., 905
 Ip, A.K.C., 476
 Irassar, F., 194, 662
 Ivey, D.G., 642
 Iyengar, K.T.S.R., 534
 James, B.R., 385
 Jensen, A.D., 177
 Jiang, Shi-Ping, 487
 Kahallaf, T.A., 465
 Kakali, G., 968
 Kaprálik, I., 89, 519, 671
 Karihaloo, B.L., 603
 Kasselouri, V., 968
 Kayyali, O.A., 423
 Keating, J., 554, 715
 Killoh, D.C., 649
 Kishar, E.A., 868
 Kobayashi, K., 821
 Kukacka, L.E., 355, 747, 857
 Kurdowski, W., 657
 Lachance, L., 939
 LaCroix, P., 879
 Lamarche, J.M., 692
 Larbi, J.A., 905
 Larrard, F. de, 161
 Lee, K., 156
 Li Yinyu, 527
 Lopez-Soler, A., 173
 Lu Ping, 851

- Lubliner, J., 929
Luxán, M.P., 63, 69
Lydon, F.E., 366
- Madruga, F., 63
Magnusson, B., 327
Mahamud, M.M., 131
Mahawish, A.H., 366
Mahmood, K., 465
Majumdar, A.J., 289, 779, 848
Maki, I., 913
Marroccoli, M., 189
Mascolo, G., 189
Mau, S.T., 143
McWhinney, H., 156
Mehta, P.K., 114
Melzer, R., 411
Mercier, R., 692
Michaux, M., 443, 567
Mindess, S., 727
Mirza, W.H., 53
Monteiro, P.J.M., 114, 306, 929, 987
Moryc, U., 657
Moukwa, M., 894
Murat, M., 16
- Nagaraj, T.S., 534
Nägele, E., 811, 978
Nallathambi, P., 603
Nanni, A., 664
Natesaiyer, K.C., 770
Neuwirth, M., 642
Novak, G.A., 1
- Odler, I., 295
Ollivier, J.P., 81
Olmez, H., 377
Oriego, J.D., 156
Ostertag, C.P., 987
Ouyang, C., 664
- Parissakis, G., 968
Parrott, L.J., 649
Parry-Jones, G., 228
Piasta, J., 103, 216
Piasta, W.G., 103, 216
Pierre, A., 692
Pigeon, M., 621, 939
Plante, P., 621
Popovic, K., 267
Portilla, M., 319
Poushanchi, M., 81
- Ragai, J., 42
Raina, S.J., 47
Ramachandran, V.S., 957
Rashed, A.I., 306
Reardon, E.J., 385
Rechenberg, W., 783
Reyes, A.S., 173
Riaz, M., 124
Ritchie, D.J., 457
Rose, K., 476
- Saavedra, J., 63
Sanchez de Rojas, M.I., 69
Sawicz, Z., 103, 216
Schneider, U., 811, 978
Serrini, G., 259
Sersale, R., 885
Seydel, R., 509
Sharif, Al-F.M., 131
Sharp, J.H., 247
Shashiprakash, S.G., 534
Shayan, A., 434, 759
Sheikh, I., 259
Shi Caijun, 527
Shukla, S., 156
Singh, A.K., 547
Singh, B., 848
Singh, N.B., 547
Singh, V.K., 47
- Stade, H., 802
Stathopoulos, D., 355
Stevula, L., 519
Sugama, T., 355, 747, 857
Suresh, S., 827
- Thaulow, N., 177
Tong Yuye, 851
Triuhart, J., 586, 683
Trottier, J-F., 400
Tscheegg, E.K., 827
- Uno, Y., 821
- Vazquez, E., 173
Venecanin, S.D., 989
Vidick, B., 443, 567
von Borstel, Th., 295
von Lampe, F., 509, 595, 737
- Wallis, B., 595
Way, S.J., 759
- Yague, A., 173
Yi, Fang, 184
- Zamorani, E., 124, 259
Zheng, Q., 25

